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¹⁾ TIG lift arc ignition

²⁾ Synergic control unit required

The EWM EN 1090 WPQR Package saves you time and money

Certification to EN 1090 made easy! Use this opportunity to qualify the welding processes used in your company.

Save time and money with the EWM EN 1090 WPQR Package:

52 EWM standard welding procedure specifications and the relevant TÜV certification which can be used for all machines in the

■ alpha Q ■ Phoenix ■ Taurus Synergic ■ Picomig series.

By acquiring this package and using EWM machines within the scope of the EWM EN 1090 WPQR Package you achieve the required qualification automatically.

The EWM EN 1090 WPQR Package may also be used for all aforementioned inverter machines already purchased

(built in 2010 and later).

More information at:

www.ewm-en1090.com



■ Symbols

	Gas cooled
	Water cooled
	Portable
	Mobile
	Compact
	Decompact

■ Abbreviations

2DV	Two wire feed units
2T	Double push-button
4R	4 rollers
5P	5-pole connection socket
8P	8-pole connection socket
ADAP	Adapter
ASM	Connection capability
AW	Connection capability filler wire
cel	Cellulose electrodes
CW	Cold wire
D	Double wire feed unit
DG	Decompact, gas cooled
DW	Decompact, water cooled
EZA	Euro torch connector
FDW	Mobile, decompact, water cooled
FWD	Mobile, water cooled, decentral
GD	Gas cooled, decentral
GD UD	Gas cooled, decentral, Up/Down
GDV	Rotary gas valve
HFL	Highly flexible hose package
KGE	Compact, gas cooled, euro torch connector
MV	Multivolt
pws	Pole reversing switch
TDG	Portable, decompact, gas cooled
TGD	Portable, gas cooled, decentral
TGE	Portable, gas cooled, euro torch connector
TKM	Portable, compact, modular
TMD	Portable, modular, decentral
WD	Water cooled, decentral
WD UD	Water cooled, decentral, Up/Down
WE	Water cooled, euro torch connector

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In accordance with the following standards and directives



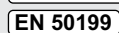
EMC Directive (2004/108/EC), Low Voltage Directive (2006/95/EC)



for increased protection (e.g. for open-air welding)



Welding in environments with increased electrical hazards (e.g. in boilers)



IEC 60974, EN 60974, EN 50199 for arc welding systems



ГОСТ 12.2.007.0-75, ГОСТ 12.2.007.8-75, Нормы 8-95
ГОСТ 18130-79, ГОСТ 13821-77, ГОСТ 12.2.007.0-75, ГОСТ 12.2.007.8-75, Нормы 8-95



ISO 9001:2008



Small, light, universal

Picomig 180 puls TKG
 Picomig 305 D2 puls TKG
 Picomig 305 D3 puls TKG

Construction site, assembly, workshop, production site – the right machine for every location and every task.

Highlights



Picomig 305: rootArc – reliable short arc welding in all positions

- Short arc with easy weld modelling capabilities for easy gap bridging and positional welding

Universal: Picomig 305 for assembly work or production

- Available in models for wire spool diameters of D200 or D300

Wide range of possible applications with convenient operation

- Pre-programmed JOBS for the most common welding tasks as well as Synergic operation with self-explanatory operating panel

Picomig – ideal for self-shielding flux cored wires

- Cost-effective – as with MMA welding, welding tasks with flux cored wire and MIG/MAG welding process can also be performed in the open air

Innovative pulse welding for stainless steel and aluminium

- The perfect pulse welding job guarantees superb welding results when joining stainless steel and aluminium, thanks to controlled globular transfer and targeted, adapted heat input

Four full welding processes

- Professionally equipped: MIG/MAG pulse, standard, MMA and TIG (lift arc) welding in a single machine

The professional solution for construction sites and assembly

- Small, light, universal – the plastic casing and innovative inverter technology make this the perfect tool for practical applications.



Picomig 180 – simplest Synergic operation
With extensive functions, non-latched, latched, spot, interval



TKG
Portable, compact,
gas cooled



Ideal for self-shielded cored wires

- Tool-free pole reversal and cored wire characteristics as standard



Powerful

- 4-roller drive unit with large roller diameter for reliable wire guidance



Total convenience

- No tools required for roller change, roller is suitable for two different wire diameters



Practical Eurotorch connector

- For easy exchange of steel liners and plastic liners



Easy servicing and maintenance

- Rapid changeover of welding accessories thanks to connection sockets for welding torches and welding lead



The new modular Phoenix with especially long duty cycle

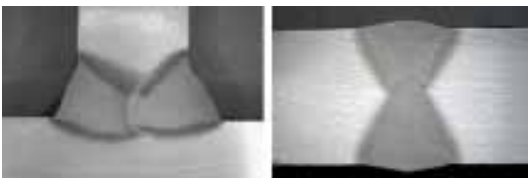
Phoenix 355 puls TKM
Phoenix 355 puls TDM
Phoenix 405 puls TDM
Phoenix 505 puls TDM

Construction site, assembly, workshop or production site – the right machine for every location and every task. Can be expanded at any time with cooling unit and transport cart – no need for tools or specialist staff

NEW!

- Improved welding properties for aluminium, CrNi and steel applications*
- superPuls process switching with simplified configuration with one-knob operation. Ideal for vertical-up welds – no weaving required when welding*

Highlights



NEW!

Intuitive operating concepts

- Compact (Concept, Progress): direct access to all settings
- Decompact (Progress): direct access to all settings on the wire feeder

Innovative pulse welding for stainless steel and aluminium

- The perfect pulse welding job guarantees superb welding results when joining stainless steel and aluminium, thanks to controlled globular transfer and targeted, adapted heat input

Numerous processes – one power source

- Multi-talented: MIG/MAG pulse, standard, forceArc, rootArc, flux cored wire as well as TIG (lift arc), MMA and gouging

forceArc – extremely productive with uncompromising quality

- Up to 50% lower production costs: a masterpiece of innovative MIG/MAG process engineering: powerful forced arc, deep fusion penetration and virtually spatter-free weld seams of the highest quality.

rootArc – reliable short arc welding in all positions

- Short arc with easy weld modelling capabilities for easy gap-bridging and positional welding

Phoenix – wide range of accessories and options

- Simple to operate: the Powercontrol torch allows all programs, operating modes, processes and the up/down function to be activated at the touch of a button.

All functions accessible with the new R50 remote control

- Display and setting of all functions on-site via the remote control

* Available for all machines in the Phoenix series



Highly practical

MMA welding and gouging with no wire feeder or remote control needed.



MIG lift arc ignition – high-precision, spatter-free ignition

Reliable and reproducible ignition results for manual applications



TKM
Portable, compact,
modular



TDM
Portable, decentral,
modular



Modern, ergonomic casing

- The front and rear sections of the machine are made of shock-resistant plastic, with rounded corners and edges.
- Operating elements with a particularly clear and protected layout



Combine skilfully and as required

- Easy combination of cooling unit or transport cart – without specialist staff and without opening the welding machine. Innovative and easy to expand to meet future needs



Super-fast attachment of cooling unit

- The unique fastening system guarantees easy attachment and detachment. The catches are fully integrated in the casing so there is no protrusion and therefore no risk of injury.



Well thought-out: casing and cooling

- Optimised air ducting via blades and fan control minimises soiling in the machine. The high-performance centrifugal pump ensures optimal welding torch cooling



Ideal for self-shielded cored wires

- Tool-free pole reversal and cored wire characteristics as standard



Total convenience

- No tools required for roller change, roller is suitable for two different wire diameters



■ Long duty cycles with MIG/MAG standard welding

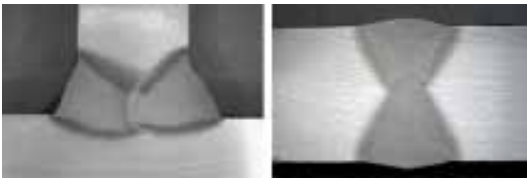
Phoenix 401 puls FKW
Phoenix 401 puls FDW

3-in-1 casing design: power source, transport cart and cooling unit in one unit – extremely easy transport and simple handling. With optimised air ducting for better cooling performance, longer duty cycle and less soiling in the machine.

NEW!

- Improved welding properties for aluminium, CrNi and steel applications*
- superPuls process switching with simplified configuration with one-knob operation. Ideal for vertical-up welds – no weaving required when welding*

Highlights



Innovative pulse welding for stainless steel and aluminium

- The perfect pulse welding job guarantees superb welding results when joining stainless steel and aluminium, thanks to controlled globular transfer and targeted, adapted heat input

Multi-talented

- MIG/MAG pulse, standard, forceArc plus TIG and MMA – five processes, one power source.

Intuitive, self-explanatory operating concepts

- Concept – direct access to the most important parameters on the wire feeder
- Progress – direct access to all settings on the wire feeder
- Expert – either wire feed control unit M3.00 with basic functions only or M3.70 with expanded settings

forceArc – extremely productive with uncompromising quality

- Up to 50% lower production costs: a masterpiece of innovative MIG/MAG process engineering: powerful forced arc, deep fusion penetration and virtually spatter-free weld seams of the highest quality.

rootArc – reliable short arc welding in all positions

- Short arc with easy weld modelling capabilities for easy gap-bridging and positional welding

Phoenix – wide range of accessories and options

- Simple to operate: the Powercontrol torch allows all programs, operating modes, processes and the up/down function to be activated at the touch of a button.

All functions accessible with the new R50 remote control

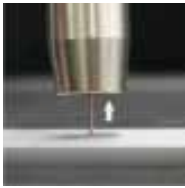
- Display and setting of all functions on-site via the remote control

* Available for all machines in the Phoenix series



Super pulse – super bead

Super pulse technology with alternating welding current is the most effective MIG/MAG welding solution for many applications: visible seams with TIG appearance, secure root weldings and excellent gap bridging



MIG lift arc ignition – high-precision, spatter-free ignition

Reliable and reproducible ignition results for manual applications



FKW
Mobile, compact,
water cooled

FDW
Mobile, decentral,
water cooled



Extra large 12-litre tank

- Easy commissioning even with long hose packages and safe operation at high temperatures and extended duty cycles



Connected in no time

- Screw and plug-in connections for intermediate hose package located externally on wire feed



Total convenience

- No tools required for roller change, roller is suitable for two different wire diameters



4 lifting eyes as standard

- 100% mobile for transportation in production halls and shipyards with restricted access



Mobility for any location

- Large wheels for easy running – even on very uneven surfaces. Same gauge on front and rear wheels facilitates transport



Multi-functional, ergonomic handle system

- Effortless running, practical holder for hose packages, impact protection



NEW!

NEW!



Picomig 305 D2 puls TKG

Picomig 305 D3 puls TKG



Controls

Picomig

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Concept

–

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Progress

–

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Expert

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Functions

MIG/MAG

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MIG/MAG pulse

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TIG

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MMA

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EWM-forceArc

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EWM-rootArc

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Technical data

Setting range for welding current

5 A - 300 A

5 A - 300 A

Duty cycle at ambient temperature

40 °C

40 °C

40 %

300 A

300 A

60 %

260 A

260 A

100 %

200 A

200 A

Open circuit voltage

93 V

93 V

Mains frequency

50 Hz

50 Hz

Mains fuses (slow-blow)

3 x 16 A

3 x 16 A

Mains voltage (tolerances)

3 x 400 V (-25 % - +20 %)

3 x 400 V (-25 % - +20 %)

Max. connected load

11 kVA

11 kVA

Recommended generator power

16.4 kVA

16.4 kVA

Drive rollers

4

4

Wire speed

1 m/min - 20 m/min

1 m/min - 20 m/min

Dimensions, machine, LxWxH in mm

536 x 298 x 480

624 x 298 x 480

Wire feeder LxWxH in mm

–

–

Weight, machine

27 kg

29 kg

Weight, wire feeder

–

–

Weight, cooling unit

–

–

Protection classification

IP 23

IP 23

Insulation class

F

F

Cooling output

–

–

Tank capacity

–

–

Flow rate

–

–

Max. output pressure

–

–

Standards

IEC 60 974-1; -5; -10 / CE / S-Safety sign / EMC class A

QR Code





NEW!



NEW!



NEW!



NEW!

Phoenix 355 puls TKM



Phoenix 355 puls TKM



Phoenix 355 puls TDM



Phoenix 355 puls TDM



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5 A - 350 A

40 °C

350 A

300 A

250 A

80 V

50 Hz / 60 Hz

3 x 16 A

3 x 400 V (-25 % - +20 %)

12.7 kVA

13.1 kVA

4

0.5 m/min - 24 m/min

624 x 298 x 480

–

33 kg

–

–

IP 23

H

–

–

–

–

5 A - 350 A

40 °C

350 A

300 A

250 A

80 V

50 Hz / 60 Hz

3 x 16 A

3 x 400 V (-25 % - +20 %)

12.7 kVA

13.1 kVA

4

0.5 m/min - 24 m/min

624 x 298 x 480

–

33 kg

–

16.5 kg

IP 23

H

1000 W (1l/min)

4 l

5 l/min

3.5 bar

5 A - 350 A

40 °C

–

–

350 A

80 V

50 Hz / 60 Hz

3 x 16 A

3 x 400 V (-25 % - +20 %)

12.7 kVA

13.1 kVA

4

0.5 m/min - 24 m/min

624 x 298 x 480

690 x 300 x 410

41 kg

15.1 kg

–

IP 23

H

–

–

–

–

5 A - 350 A

40 °C

–

–

350 A

80 V

50 Hz / 60 Hz

3 x 16 A

3 x 400 V (-25 % - +20 %)

12.7 kVA

13.1 kVA

4

0.5 m/min - 24 m/min

624 x 298 x 480

690 x 300 x 410

41 kg

15.1 kg

16.5 kg

IP 23

H

1000 W (1l/min)

4 l

5 l/min

3.5 bar

IEC 60 974-1; -5; -10 / CE / S-Safety sign / EMC class A





NEW!

NEW!

Phoenix 405 puls TDM

Phoenix 405 puls TDM



Controls

Picomig

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Concept

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Progress

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Expert

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Functions

MIG/MAG

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MIG/MAG pulse

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TIG

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MMA

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EWM-forceArc

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EWM-rootArc

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Technical data

Setting range for welding current

5 A - 400 A

5 A - 400 A

Duty cycle at ambient temperature

40 °C

40 °C

60 %

–

–

100 %

400 A

400 A

Open circuit voltage

80 V

80 V

Mains frequency

50 Hz / 60 Hz

50 Hz / 60 Hz

Mains fuses (slow-blow)

3 x 35 A

3 x 35 A

Mains voltage (tolerances)

3 x 400 V (-25 % - +20 %)

3 x 400 V (-25 % - +20 %)

Max. connected load

17.5 kVA

17.5 kVA

Recommended generator power

25 kVA

25 kVA

Drive rollers

4

4

Wire speed

0.5 m/min - 24 m/min

0.5 m/min - 24 m/min

Dimensions, machine, LxWxH in mm

624 x 298 x 535

624 x 298 x 535

Wire feeder LxWxH in mm

690 x 300 x 410

690 x 300 x 410

Weight, machine

41 kg

41 kg

Weight, wire feeder

15.1 kg

15.1 kg

Weight, cooling unit

–

16.5 kg

Protection classification

IP 23

IP 23

Insulation class

H

H

Cooling output

–

1000 W (1l/min)

Tank capacity

–

4 l

Flow rate

–

5 l/min

Max. output pressure

–

3.5 bar

Standards

IEC 60 974-1; -10 / CE / S-Safety sign / EMC class A

QR Code



NEW!

NEW!

NEW!

NEW!



Phoenix 505 puls TDM

Phoenix 505 puls TDM

Phoenix 401 puls FKW

Phoenix 401 puls FDW



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5 A - 500 A

5 A - 500 A

5 A - 400 A

5 A - 400 A

40 °C

40 °C

40 °C

40 °C

500 A

500 A

–

–

430 A

430 A

400 A

400 A

80 V

80 V

80 V

80 V

50 Hz / 60 Hz

50 Hz / 60 Hz

50 Hz / 60 Hz

50 Hz / 60 Hz

3 x 35 A

3 x 35 A

3 x 35 A

3 x 35 A

3 x 400 V (-25 % - +20 %)

3 x 400 V (-25 % - +20 %)

3 x 400 V (-25 % - +20 %)

3 x 400 V (-25 % - +20 %)

24.6 kVA

24.6 kVA

17.5 kVA

17.5 kVA

35 kVA

35 kVA

25 kVA

25 kVA

4

4

4

4

0.5 m/min - 24 m/min

0.5 m/min - 24 m/min

0.5 m/min - 24 m/min

0.5 m/min - 24 m/min

624 x 298 x 535

624 x 298 x 535

1100 x 455 x 1000

1100 x 455 x 1000

690 x 300 x 410

690 x 300 x 410

–

690 x 300 x 410

45 kg

45 kg

119.5 kg

118 kg

15.1 kg

15.1 kg

–

15.1 kg

–

16.5 kg

–

–

IP 23

IP 23

IP 23

IP 23

H

H

H

H

–

1000 W (1l/min)

1500 W (1l/min)

1500 W (1l/min)

–

4 l

12 l

12 l

–

5 l/min

5 l/min

5 l/min

–

3.5 bar

–

3.5 bar

IEC 60 974-1; -10 / CE / S-Safety sign / EMC class A





Options/accessories

Wire feed units



Phoenix Progress drive 4

Wire feeder, water, Euro torch connector
4-roller wire feed equipped for 1.0 mm + 1.2 mm steel wires
Spool diameter up to 300 mm



Phoenix Progress drive 4L

Wire feeder, water, Euro torch connector
4-roller wire feed equipped for 1.0 mm + 1.2 mm steel wires
Spool diameter up to 300 mm



Phoenix Progress drive 300C

Wire feeder, water, Euro torch connector
Adjustment of the gas quantity directly on the wire feed unit
4-roller wire feed equipped for 1.0 mm + 1.2 mm steel wires
Spool diameter up to 300 mm



Phoenix Progress drive 200C

Wire feeder, water, Euro torch connector
Adjustment of the gas quantity directly on the wire feed unit
4-roller wire feed equipped for 1.0 mm + 1.2 mm steel wires
Spool diameter up to 200 mm



Phoenix Progress drive 4D

Double wire feeder
Two welding tasks with just one power source for alternating welding of root and final passes, solid and flux cored wire, or a variety of materials and wire thicknesses
The torch trigger is used for changeover between the wire feeds; no special torch or changeover on the machine required!
4-roller wire feed equipped for 1.0 mm + 1.2 mm steel wires
Spool diameter up to 300 mm
No changing of rollers, no torch conversion required, changeover times are greatly reduced
► **Can be operated with the Phoenix Progress puls D series only!**

Intermediate drive unit



M drive 4Z W

Intermediate wire feeder
4-roll drive, equipped for 1.0 mm + 1.2 mm steel wires
Hose package lengths of up to 25 m
► **Special intermediate hose package available on request!**
► **Especially for alpha Q, Phoenix Progress, Phoenix Expert and Taurus Synergic S. Not suitable for high-speed welding!**

NEW!

Intermediate hose package, 7-pole



MIG G 7POL 70MM²

Intermediate hose package, gas cooled, 7-pole



MIG W 7POL 70MM²

Intermediate hose package, water cooled, 7-pole

Intermediate hose packages, 19-pole



MIG W 19POL 70MM²

Intermediate hose package, water cooled, 19-pole

Torches



MT series EZA

MIG/MAG welding torch, gas or water cooled
Equipped for 1.0 mm welding wire
Best ignition characteristics even with thin wires
Ergonomically formed grip to take the strain out of work
Outstanding welding characteristics thanks to separate gas supply and optimal cooling



TIG 150 GD GRIP 1T EZA 4M

TIG welding torch, Euro torch connector

Function torch 19-pole



MT series U/D

MIG/MAG welding torch, 1 x up/down, gas or water cooled
Equipped for 1.2 mm welding wire
Best ignition characteristics even with thin wires
Ergonomically formed grip to take the strain out of work
Outstanding welding characteristics thanks to separate gas supply and optimal cooling



MT series 2U/D

MIG/MAG welding torch, 2x up/down, gas or water cooled
Equipped for 1.2 mm welding wire
Best ignition characteristics even with thin wires
Ergonomically formed grip to take the strain out of work
Outstanding welding characteristics thanks to separate gas supply and optimal cooling



MT series PC1

MIG/MAG welding torch, Powercontrol 1, gas or water cooled
Equipped for 1.2 mm welding wire
Best ignition characteristics even with thin wires
Ergonomically formed grip to take the strain out of work
Outstanding welding characteristics thanks to separate gas supply and optimal cooling



MT series PC2

MIG/MAG welding torch, Powercontrol 2, gas or water cooled
Equipped for 1.2 mm welding wire
Best ignition characteristics even with thin wires
Ergonomically formed grip to take the strain out of work
Outstanding welding characteristics thanks to separate gas supply and optimal cooling



Gouging



GT 600 SKK95 3

Gouging torch

Air arc gouging torch for separating metals

► **Suitable carbon electrodes can be found in the Accessories section of the price list!**

Remote controls



R10 19POL

Remote control, wire speed setting, welding voltage correction

Robust metal casing with rubber feet, retaining clip and holding magnet, 19-pole connection socket
For alpha Q, Phoenix, Taurus Synergic and Taurus Synergic S



RG10 19POL

Remote control to set the wire speed and welding voltage

Plastic casing with retaining clip, 19-pole connection socket

Light, robust and convenient

Voltage correction from -10 V to +10 V

Infinitely variable setting of wire-feed speed (0.5–24 m/min)

With pre-fitted 5-m connection cable

For alpha Q, Phoenix, Taurus Synergic and Taurus Synergic S machine series



R20 19POL

Remote control, program switching

Robust metal casing with rubber feet, retaining clip and holding magnet, 19-pole connection socket
Changeover and display of up to ten welding programmes

For alpha Q, Phoenix Progress, Phoenix Expert (not in combination with Phoenix Expert Drive M3.00) as well as Taurus Synergic S



R40 7POL

Remote control, 16 programs

Robust metal casing with rubber feet, retaining clip and holding magnet, 7-pole connection socket
Switch between MIG standard welding and pulsed arc welding

For alpha Q, Phoenix Progress, Phoenix Expert and Taurus Synergic S

► **Cannot be used with double or two separate wire feed units!**



R50 7POL

Remote control with complete range of functions

All functions of the welding machine can be accessed directly at site of work

For alpha Q, Phoenix Progress, Phoenix Expert and Taurus Synergic S

NEW!

Cooling units



cool50-2 U40

Air cooling unit with centrifugal pump

Modular design, tool-free assembly

For Phoenix / Taurus 355, 405, 505 decentral



cool50 U40

Air cooling unit with centrifugal pump

Modular design, tool-free assembly

For Phoenix / Taurus 355 compact

Transport carts



Trolley 55.2-2

Transport carts

For transporting a power source, a cooling unit and a gas cylinder

Picomig 305 D3, Phoenix / Taurus 355, 405 and 505

► **In order to hold a wire feeder it is essential to have option 092-002700-00000!**



ON TR Trolley 55.2-2

Cross arm and holder for wire feed



ON WAK xx5

Wheel assembly kit for Picomig 305 D3, Phoenix / Taurus 355, 405 and 505

Electrode holders



EH 50MM²

Electrode cable

Fully assembled electrode cable

► **Refer to the Internet for more technical information. www.ewm-group.com**



Long duty cycles with MIG/MAG standard welding

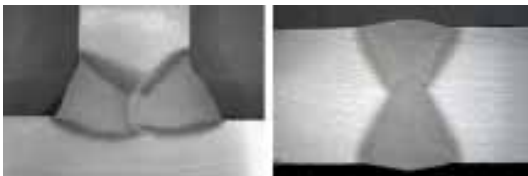
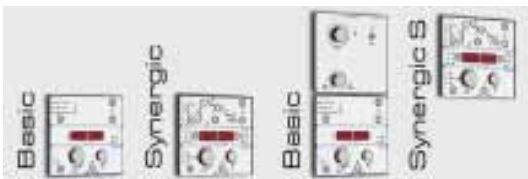
Taurus 355 TKM
 Taurus 355 TDM
 Taurus 405 TDM
 Taurus 505 TDM

Construction site, assembly, workshop or production site – the right machine for every location and every task. Can be expanded at any time with cooling unit and transport cart – no need for tools or specialist staff

NEW!

- Improved welding properties for aluminium, CrNi and steel applications*
- superPuls process switching with simplified configuration with one knob dial. Ideal for vertical-up welds – no weaving required when welding*

Highlights



NEW!

Taurus – choice of 2 controls

- From the exceptionally simple „Basic“ to the especially convenient „Synergic“. Display and settings optionally on the machine (compact) or as S version on the wire feeder (decompact)
- Controls for compact machines: Basic and Synergic
- Controls for decompact machines: Basic and Synergic S

Taurus Basic

- The robust, infinitely adjustable inverter power source for MIG/MAG standard and MMA welding as well as gouging with classical twin-knob operation for adjustment of welding voltage and wire feed speed

Taurus Synergic/Synergic S – with the innovative welding processes

- In addition to the „standard“ – MIG/MAG, MMA, gouging – the Synergic distinguishes itself with the innovations from EWM: forceArc, rootArc and TIG (lift arc). The one-knob operation (Synergic) with pre-programmed JOBS (welding tasks) and selection via JOB list makes adjustment perfect

forceArc – extremely productive with uncompromising quality

- Up to 50% lower production costs: a masterpiece of innovative MIG/MAG process engineering: powerful forced arc, deep fusion penetration and virtually spatter-free weld seams of the highest quality.

rootArc – reliable short arc welding in all positions

- Short arc with easy weld modelling capabilities for easy gap-bridging and positional welding

Consistent welding results

- The innovative EWM inverter technology is characterised by especially low energy consumption, tremendous power reserves and a long service life, regardless of cable lengths and mains voltage fluctuations
- Digital control of the wire feeder – even with difficult wire feed conditions e.g. long hose packages

All functions accessible with the new R50 remote control

- Display and setting of all functions on-site via the remote control

* Available for all machines in the Taurus series



Highly practical

MMA welding and gouging with no wire feeder or remote control needed.



Very high power reserves

enable use of long intermediate hose packages: 70 mm² up to 30 m / 95 mm² up to 40 m



TKM
Portable, compact,
modular



TDM
Portable, decentral,
modular



Modern, ergonomic casing

- The front and rear sections of the machine are made of shock-resistant plastic, with rounded corners and edges.
- Operating elements with a particularly clear and protected layout



Combine skilfully and as required

- Easy combination of cooling unit or transport cart – without specialist staff and without opening the welding machine. Innovative and easy to expand to meet future needs



Super-fast attachment of cooling unit

- The unique fastening system guarantees easy attachment and detachment. The catches are fully integrated in the casing so there is no protrusion and therefore no risk of injury.



Well thought-out: casing and cooling

- Optimised air ducting via blades and fan control minimises soiling in the machine. The high-performance centrifugal pump ensures optimal welding torch cooling



Ideal for self-shielded cored wires

- Tool-free pole reversal and cored wire characteristics as standard



Total convenience

- No tools required for roller change, roller is suitable for two different wire diameters



■ Long duty cycles with MIG/MAG standard welding

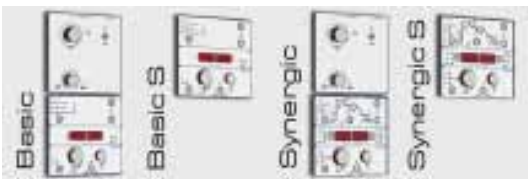
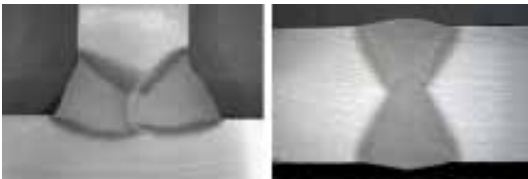
Taurus 401 FKW
 Taurus 401 FDW

3-in-1 casing design: Power source, transport cart and cooling unit in one unit – extremely easy transport and simple handling. With optimised air ducting for better cooling performance, longer duty cycle and less soiling in the machine.

NEW!

- Improved welding properties for aluminium, CrNi and steel applications*
- superPuls process switching with simplified configuration with one-knob operation. Ideal for vertical-up welds – no weaving required when welding*

Highlights



Taurus Basic

- The robust, infinitely adjustable inverter power source for MIG/MAG standard and MMA welding as well as gouging with classical twin-knob operation for adjustment of welding voltage and wire feed speed

Taurus Synergic/Synergic S – with the innovative welding processes

- In addition to the „standard“ – MIG/MAG, MMA, gouging – the Synergic distinguishes itself with the innovations from EWM: forceArc, rootArc and TIG (lift arc). The one-knob operation (Synergic) with pre-programmed JOBS (welding tasks) and selection via JOB list makes adjustment perfect

forceArc – extremely productive with uncompromising quality

- Up to 50% lower production costs: a masterpiece of innovative MIG/MAG process engineering: powerful forced arc, deep fusion penetration and virtually spatter-free weld seams of the highest quality.

rootArc – reliable short arc welding in all positions

- Short arc with easy weld modelling capabilities for easy gap-bridging and positional welding

Taurus – choice of 4 controls

- From the exceptionally simple „Basic“ to the especially convenient „Synergic“ Display and settings optionally on the machine or, as an S version, on the wire feeder

Consistent welding results

- The innovative EWM inverter technology is characterised by especially low energy consumption, tremendous power reserves and a long service life, regardless of cable lengths and mains voltage fluctuations
- Digital control of the wire feeder – even with difficult wire feed conditions e.g. long hose packages

All functions accessible with the new R50 remote control

- Display and setting of all functions on-site via the remote control

* Available for all machines in the Taurus series



Synergic operation

Very easy to set the operating point – all welding parameters and the optimum characteristics are set as per the pre-selected welding task using just one rotary dial



Gas or liquid cooling

Taurus 351, 401, 451, and 551 available with gas or liquid cooling



FKW

Mobile, compact, water cooled

FDW

Mobile, decentral, water cooled



Extra large 12-litre tank

- Easy commissioning even with long hose packages and safe operation at high temperatures and extended duty cycles



Connected in no time

- Screw and plug-in connections for intermediate hose package located externally on wire feed



Total convenience

- No tools required for roller change, roller is suitable for two different wire diameters



4 lifting eyes as standard

- 100% mobile for transportation in production halls and shipyards with restricted access



Mobility for any location

- Large wheels for easy running – even on very uneven surfaces. Same gauge on front and rear wheels facilitates transport



Multi-functional, ergonomic handle system

- Effortless running, practical holder for hose packages, impact protection



NEW!

NEW!



Taurus 355 TKM

Taurus 355 TKM



Controls

Taurus Basic

•

•

Taurus Basic S

–

–

Taurus Synergic

•

•

Taurus Synergic S

–

–

Functions

MIG/MAG

•

•

MMA

•

•

TIG

•

•

EWM-forceArc

•

•

EWM-rootArc

•

•

Technical data

Setting range for welding current

5 A - 350 A

5 A - 350 A

Duty cycle at ambient temperature

40 °C

40 °C

40 %

350 A

350 A

60 %

300 A

300 A

100 %

250 A

250 A

Open circuit voltage

80 V

80 V

Mains frequency

50 Hz / 60 Hz

50 Hz / 60 Hz

Mains fuses (slow-blow)

3 x 16 A

3 x 16 A

Mains voltage (tolerances)

3 x 400 V (-25 % - +20 %)

3 x 400 V (-25 % - +20 %)

Max. connected load

12.7 kVA

12.7 kVA

Recommended generator power

13.1 kVA

13.1 kVA

Drive rollers

4

4

Wire speed

0.5 m/min - 24 m/min

0.5 m/min - 24 m/min

Dimensions, machine, LxWxH in mm

624 x 298 x 480

624 x 298 x 480

Wire feeder LxWxH in mm

–

–

Weight, machine

33 kg

33 kg

Weight, wire feeder

–

–

Weight, cooling unit

–

16.5 kg

Protection classification

IP 23

IP 23

Insulation class

H

H

Cooling output

–

1000 W (1l/min)

Tank capacity

–

4 l

Flow rate

–

5 l/min

Max. output pressure

–

3.5 bar

Standards

IEC 60 974-1; -5; -10 / CE / S-Safety sign / EMC class A

QR Code







NEW!



NEW!

	Taurus 405 TDM	Taurus 505 TDM	
	  	  	
Controls			
Taurus Basic	–	–	
Taurus Basic S	–	–	
Taurus Synergic	–	–	
Taurus Synergic S	•	•	
Functions			
MIG/MAG	•	•	
MMA	•	•	
TIG	•	•	
EWM-forceArc	•	•	
EWM-rootArc	•	•	
Technical data			
Setting range for welding current	5 A - 400 A	5 A - 500 A	
Duty cycle at ambient temperature	40 °C	40 °C	
60 %	–	500 A	
100 %	400 A	430 A	
Open circuit voltage	80 V	80 V	
Mains frequency	50 Hz / 60 Hz	50 Hz / 60 Hz	
Mains fuses (slow-blow)	3 x 35 A	3 x 35 A	
Mains voltage (tolerances)	3 x 400 V (-25 % - +20 %)	3 x 400 V (-25 % - +20 %)	
Max. connected load	17.5 kVA	24.6 kVA	
Recommended generator power	25 kVA	35 kVA	
Drive rollers	4	4	
Wire speed	0.5 m/min - 24 m/min	0.5 m/min - 24 m/min	
Dimensions, machine, LxWxH in mm	624 x 298 x 535	624 x 298 x 535	
Wire feeder LxWxH in mm	690 x 300 x 410	690 x 300 x 410	
Weight, machine	41 kg	45 kg	
Weight, wire feeder	15.1 kg	15.1 kg	
Weight, cooling unit	16.5 kg	–	
Protection classification	IP 23	IP 23	
Insulation class	H	H	
Cooling output	1000 W (1l/min)	–	
Tank capacity	4 l	–	
Flow rate	5 l/min	–	
Max. output pressure	3.5 bar	–	
Standards	IEC 60 974-1; -10; -2 / CE / S-Safety sign / EMC class A		

QR Code





NEW!



NEW!



NEW!



Taurus 505 TDM



Taurus 401 FKW



Taurus 401 FDW



	–	•	•
	–	–	•
	–	•	•
	•	–	•
	•	•	•
	•	•	•
	•	•	•
	•	•	•
	•	•	•
	5 A - 500 A	5 A - 400 A	5 A - 400 A
	40 °C	40 °C	40 °C
	500 A	–	–
	430 A	400 A	400 A
	80 V	80 V	80 V
	50 Hz / 60 Hz	50 Hz / 60 Hz	50 Hz / 60 Hz
	3 x 35 A	3 x 35 A	3 x 35 A
	3 x 400 V (-25 % - +20 %)	3 x 400 V (-25 % - +20 %)	3 x 400 V (-25 % - +20 %)
	24.6 kVA	17.5 kVA	17.5 kVA
	35 kVA	25 kVA	25 kVA
	4	4	4
	0.5 m/min - 24 m/min	0.5 m/min - 24 m/min	0.5 m/min - 24 m/min
	624 x 298 x 535	1100 x 455 x 1000	1100 x 455 x 1000
	690 x 300 x 410	–	690 x 300 x 410
	45 kg	118 kg	118 kg
	15.1 kg	–	15.1 kg
	16.5 kg	–	–
	IP 23	IP 23	IP 23
	H	H	H
	1000 W (1l/min)	1500 W (1l/min)	1500 W (1l/min)
	4 l	12 l	12 l
	5 l/min	5 l/min	5 l/min
	3.5 bar	3.5 bar	3.5 bar

IEC 60 974-1; -10; -2 / CE / S-Safety sign / EMC class A





Options/accessories

Wire feed units



Taurus Synergic S drive 4

Wire feeder, water, Euro torch connector
 4-roller wire feed equipped for 1.0 mm + 1.2 mm steel wires
 Spool diameter up to 300 mm



Taurus Synergic S drive 4L

Wire feeder, water, Euro torch connector
 4-roller wire feed equipped for 1.0 mm + 1.2 mm steel wires
 Spool diameter up to 300 mm



Taurus Synergic S drive 300C

Wire feeder, water, Euro torch connector
 Adjustment of the gas quantity directly on the wire feed unit
 4-roller wire feed equipped for 1.0 mm + 1.2 mm steel wires
 Spool diameter up to 300 mm



Taurus Synergic S drive 200C

Wire feeder, water, Euro torch connector
 Adjustment of the gas quantity directly on the wire feed unit
 4-roller wire feed equipped for 1.0 mm + 1.2 mm steel wires
 Spool diameter up to 200 mm

Intermediate drive unit



M drive 4Z W

Intermediate wire feeder
 4-roll drive, equipped for 1.0 mm + 1.2 mm steel wires
 Hose package lengths of up to 25 m
► Special intermediate hose package available on request!
► Especially for alpha Q, Phoenix Progress, Phoenix Expert and Taurus Synergic S. Not suitable for high-speed welding!

NEW!

Intermediate hose package, 7-pole



MIG G 7POL 70MM²

Intermediate hose package, gas cooled, 7-pole



MIG W 7POL 70MM²

Intermediate hose package, water cooled, 7-pole

Intermediate hose packages, 19-pole



MIG G 19POL 70MM²

Intermediate hose package, gas cooled, 19-pole



MIG W 19POL 70MM²

Intermediate hose package, water cooled, 19-pole

Torches



MT series EZA

MIG/MAG welding torch, gas or water cooled
 Equipped for 1.0 mm welding wire
 Best ignition characteristics even with thin wires
 Ergonomically formed grip to take the strain out of work
 Outstanding welding characteristics thanks to separate gas supply and optimal cooling



TIG 450 WD GRIP 1T EZA 4M

TIG welding torch, Euro torch connector
 Water cooled TIG welding torch
 Special version for connection to liquid-cooled Phoenix 355 and Taurus 355 Synergic S

Function torch 19-pole



MT series U/D

MIG/MAG welding torch, 1x up/down, gas or water cooled
 Equipped for 1.0 mm welding wire
 Best ignition characteristics even with thin wires
 Ergonomically formed grip to take the strain out of work
 Outstanding welding characteristics thanks to separate gas supply and optimal cooling



MT series 2U/D

MIG/MAG welding torch, 2x up/down, gas or water cooled
 Equipped for 1.0 mm welding wire
 Best ignition characteristics even with thin wires
 Ergonomically formed grip to take the strain out of work
 Outstanding welding characteristics thanks to separate gas supply and optimal cooling



MT series PC1

MIG/MAG welding torch, Powercontrol 1, gas or water cooled
 Equipped for 1.2 mm welding wire
 Best ignition characteristics even with thin wires
 Ergonomically formed grip to take the strain out of work
 Outstanding welding characteristics thanks to separate gas supply and optimal cooling



► Not possible in combination with Phoenix Expert drive 4/4L M3.00!

MT series PC2

MIG/MAG welding torch, Powercontrol 2, gas or water cooled
 Equipped for 1.2 mm welding wire
 Best ignition characteristics even with thin wires
 Ergonomically formed grip to take the strain out of work
 Outstanding welding characteristics thanks to separate gas supply and optimal cooling
► Not possible in combination with Phoenix Expert drive 4/4L M3.00!

Gouging



GT 600 SKK95 3

Gouging torch
 Air arc gouging torch for separating metals
► Suitable carbon electrodes can be found in the Accessories section of the price list!



Remote controls



R10 19POL

Remote control, wire speed setting, welding voltage correction
Robust metal casing with rubber feet, retaining clip and holding magnet, 19-pole connection socket
For alpha Q, Phoenix, Taurus Synergic and Taurus Synergic S



RG10 19POL

Remote control to set the wire speed and welding voltage
Plastic casing with retaining clip, 19-pole connection socket
Light, robust and convenient
Voltage correction from -10 V to +10 V
Infinitely variable setting of wire-feed speed (0.5–24 m/min)
With pre-fitted 5-m connection cable
For alpha Q, Phoenix, Taurus Synergic and Taurus Synergic S machine series



R11 19POL

Remote control to set the wire speed and welding voltage
Robust metal casing with rubber feet, retaining clip and holding magnet, 19-pole connection socket
For Taurus Basic / Basic S



RG11 19POL 5M

Remote control to set the wire speed and welding voltage
Plastic casing with retaining clip, 19-pole connection socket
Light, robust and convenient
Infinite setting of the welding voltage (10–50 V)
Infinitely variable setting of wire-feed speed (0.5–24 m/min)
With pre-fitted 5-m connection cable
For Taurus Basic and Taurus Basic S machine series



R20 19POL

Remote control, program switching
Robust metal casing with rubber feet, retaining clip and holding magnet, 19-pole connection socket
Changeover and display of up to ten welding programmes
For alpha Q, Phoenix Progress, Phoenix Expert (not in combination with Phoenix Expert Drive M3.00) as well as Taurus Synergic S



R40 7POL

Remote control, 16 programs
Robust metal casing with rubber feet, retaining clip and holding magnet, 7-pole connection socket
Switch between MIG standard welding and pulsed arc welding
For alpha Q, Phoenix Progress, Phoenix Expert and Taurus Synergic S

► **Cannot be used with double or two separate wire feed units!**



RR50 7POL

Remote control with complete range of functions
All functions of the welding machine can be accessed directly at site of work
For alpha Q, Phoenix Progress, Phoenix Expert and Taurus Synergic S

NEW!

Cooling units



cool50 U40

Air cooling unit with centrifugal pump
Modular design, tool-free assembly
For Phoenix / Taurus 355, 405, 505 decentral



cool50-2 U40

Air cooling unit with centrifugal pump
Modular design, tool-free assembly
For Phoenix / Taurus 355 compact

Transport carts



Trolley 55.2-2

Transport carts
For transporting a power source, a cooling unit and a gas cylinder
Picomig 305 D3, Phoenix / Taurus 355, 405 and 505
► **In order to hold a wire feeder it is essential to have option 092-002700-00000!**



ON TR Trolley 55.2-2

Cross arm and holder for wire feed



ON WAK xx5

Wheel assembly kit for Picomig 305 D3, Phoenix / Taurus 355, 405 and 505

Electrode holders



EH 50MM²

Electrode cable
Fully assembled electrode cable

► **Refer to the Internet for more technical information. www.ewm-group.com**



■ **Intermediate wire feeder for maximum reach!**

M drive-2 2Z

- A broad scope of activity allowing you to weld at locations that are hard to reach
- A robust housing with compact dimensions and low weight
- Correction of settings and wire inching are possible directly on the machine
- Remote control connection option

Highlights

- Lightweight in aluminium housing: only 7.5 kg
- Compact dimensions: fits through 20-cm-wide openings
- Rounded edges, plastic protectors
- Large cover with self-locking hinges for easy commissioning and easy changing of the wire spool
- Adjustable roller contact pressure
- Wire spool suitable for two different wire diameters
- Hose package length variants available of 10 m to 25 m
- Safe operation with total hose package lengths of up to 50 m



M drive-2 2Z



- MIG/MAG intermediate wire feeder
- Hose package length variants available of 10 m to 25 m
- Broad scope of activity allowing you to weld at locations that are hard to reach
- Robust housing with compact dimensions and low weight
- Correction of settings and wire inching are possible directly on the machine
- 4-roller wire feed equipped for 1.0 mm + 1.2 mm steel wires

Wire speed	1 m/min - 20 m/min
Max. welding current	400 A
Roller diameter	37 mm
Dimensions	302 x 176 x 196
Cross-section	70 mm ²
Weight without accessories	7.5 kg

Optimized welding wire for the innovative EWM welding processes

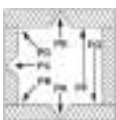
Brilliance

- Excellent ignition characteristics
- Stable, low-spatter arc
- Excellent gliding characteristics for less wear of the contact tip
- Reduced welding fume emissions, lower environmental impact

Highlights

The difference is:

- Longer service life of hose package, welding torch and contact tip due to excellent wire feed properties even with very long hose packages and high wire feed speeds
- The surface is wetted with a special additive, providing excellent current transfer in the contact tip
- Protection from corrosion even when stored for long periods
- Lower welding costs thanks to reduced spatter and therefore less finishing work
- Reduction of copper components in the welding fumes and acid-free, environmentally friendly wire production



■ SW 70S G3 Brilliance

- Suitable for EWM forceArc, coldArc, rootArc, pipeSolution
- Bright, layer wound
- Very low spatter in all power ranges
- Ideal for automated welding
- Unalloyed MAG solid wire electrode

EN ISO 14341-A G42 2 C / G 42 4 M G3 Si1
AWS A-5.18 ER 70S-6
Material number 1.5125

Chemical analysis

C	Si	Mn
0.07	0.85	1.45

Shielding gas

C1 / M21 / M22 - M33

Expansion, A5 Yield strength, Rp 0.2%

≥25 % ≥420 MPa

Tensile strength, Rm

≥520 MPa

Impact energy, Av

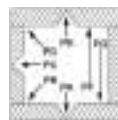
≥85 J (20 °C)

Approvals

TÜV / DB / CE

Materials

S185 - S355G1, S255N - S355N, P255NH - P355NH, P235GH - P285NH, P235 - P355T2, 20MnNb6, L210 - L360NB
Shipbuilding steels A, B, D, E
Cast steel GS-38-GS-52



■ SW 70S G4 Brilliance

- Suitable for EWM forceArc, coldArc, rootArc, pipeSolution
- Developed specially for EWM forceArc
- Bright, layer wound
- Very low spatter in all power ranges
- Ideal for automated welding
- Unalloyed MAG solid wire electrode

EN ISO 14341-A G 46 2 C G4Si1/ G 46 4 M
AWS A-5.18 ER 70S-6
Material number 1.5130

Chemical analysis

C	Si	Mn
0.07	0.95	1.75

Shielding gas

C1 / M21 / M22 - M33

Expansion, A5 Yield strength, Rp 0.2%

≥25 % ≥460 MPa

Tensile strength, Rm

520 MPa - 560 MPa

Impact energy, Av

≥90 J (20 °C)

Approvals

TÜV / DB / CE

Materials

S185 - S355G1, S255N - S355N, P255NH - P355NH, P235GH - P285GH, P235 - P355T2, 20MnNb6, L210 - L360NB
Shipbuilding steels A, B, D, E
Cast steel GS-38-GS-52



Welding torches



EWM welding torches are ideal for all conventional MIG/MAG processes and are perfectly suited to the innovative EWM welding processes.



Highest quality for increased competitiveness

The gas- or water-cooled MIG/MAG welding torches are part of our integrated system. They are coordinated with all other EWM components, and this combination ensures that the full performance capability of the power sources goes into the welding process. Extreme robustness and durability reduce wear and the cost of spare parts. It all counts!

At a glance

- / Wide product range: from gas-cooled or replaceable-neck torches through to fume extraction torches.
- / Extremely robust and durable: the EWM M7/M9 contact tips have a particularly high service life.
- / Perfect ergonomics and balance: elliptical grips reduce the effort needed to guide the torch.

Perfect weld seams without spatter or rework



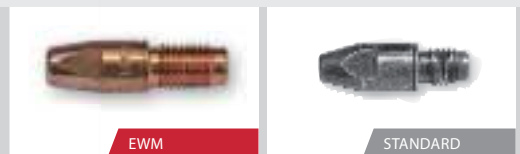
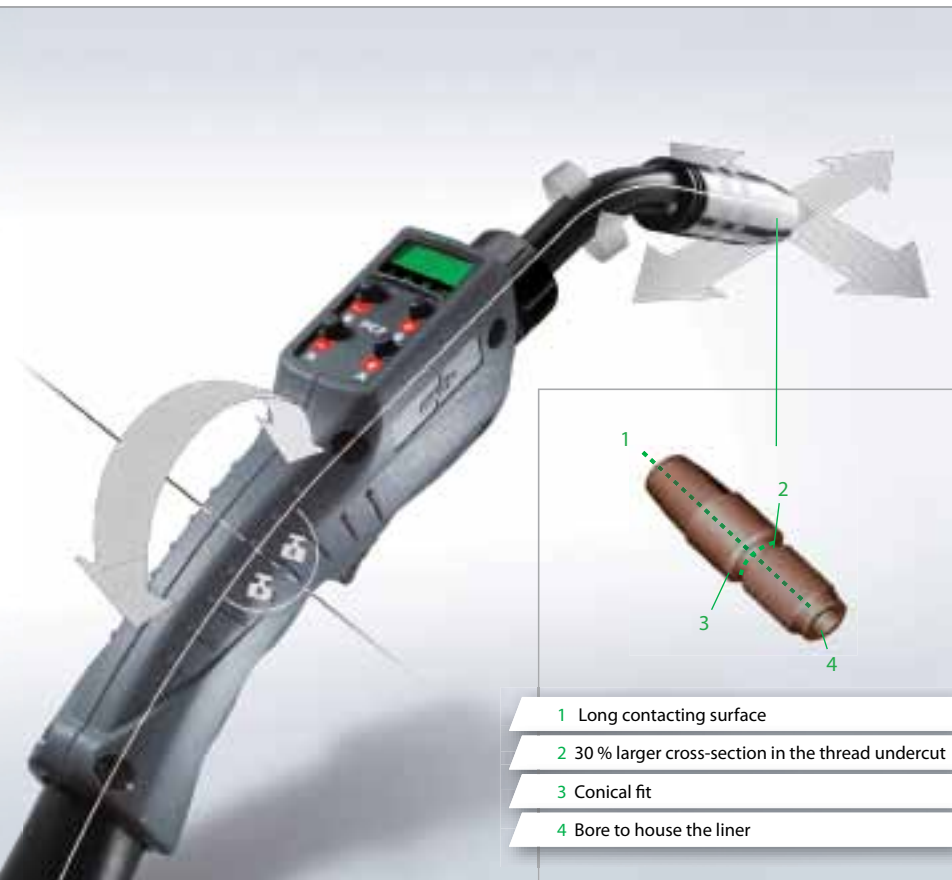
Advantages

Low-fatigue operation – thanks to lighter, more flexible and perfectly balanced welding torches

- The weight of the complete welding torch has been reduced through the innovative hose package and redesign of the torch necks
- Compact design, no annoying kink protection
- Perfect ergonomics and balance: elliptical grips for minimal effort when guiding the welding torch

High service life – through robust, durable M7/M9 contact tips

- Improved heat and power transfer through the 30% larger material cross-section compared to standard M6/M8 contact tips, longer contacting surface and conical fit of the contact tip.
- High power reserves mean less wear



Increased quality through the minimisation of errors

- Transfer-free wire guide from torch connection through to the contact tip
- Excellent, laminar shielding gas coverage
- Secure contact with the contact tip
- Optimum cooling and better heat dissipation of the replacement parts
- Screwed gas nozzle provides secure hold

INCREASED REVENUES



REDUCED COSTS



For lower costs and higher revenues

With EWM welding torches you will save on shielding gas, replacement parts and valuable working time. Produce flawless weld seams with minimal spatter or rework.



Type	MT 221 G	MT 301 G	MT 401 G
Operating variants	Standard or function torch		
Replaceable torch neck "C"	MT 221 CG	MT 301 CG	-
Fume extraction torch "F"	MT 220 GF	MT 301 GF	-
Automated welding torch "A"	-	AMT 301 G	-
Cooling	Gas-cooled "G"	Gas-cooled "G"	Gas-cooled "G"
Welding current CO ₂	250 A at 60% DC	330 A at 60% DC	450 A at 35% DC
Welding current M21	220 A at 60% DC	300 A at 60% DC	400 A at 35% DC
Pulse welding current M21	150 A at 60% DC	210 A at 60% DC	260 A at 35% DC
Shielding gas	Argon, mixed gas M21 or CO ₂ conforming to EN ISO 14175		
Wire diameter	0.6 to 1.2 mm	0.8 to 1.6 mm	0.8 to 2.0 mm
Gas flow	10 to 20 l/min	10 to 20 l/min	10 to 20 l/min
Hose package length	3 m/4 m/5 m	3 m/4 m/5 m	3 m/4 m/5 m
Connection	Euro torch connector	Euro torch connector	Euro torch connector
Torch data in accordance with	IEC 60974-7	IEC 60974-7	IEC 60974-7

THE EWM WELDING TORCH PROGRAMME HAS ALL OF YOUR NEEDS COVERED

The right welding torch for every application.



MT CG/CW

- Replaceable torch necks with various bend radii
- Excellent handling even in hard-to-access areas



MT GF/WF

- Welding torch with fume extraction
- Significantly reduces emissions in the ambient air
- Infinitely variable air volume control
- For use on high vacuum extraction systems
- Torch trigger



AMT

- Welding torches for automated welding
- Highly robust with long duty cycle
- Replacement parts identical to MT series



MT 301 W	MT 451 W/WL	MT 551 W/WL	Type
Standard or function torch			Operating variants
MT 301 CW	-	-	Replaceable torch neck "C"
MT 301 WF	MT 451 WF	MT 551 WF	Fume extraction torch "F"
-	AMT 451 W	AMT 551 W	Automated welding torch "A"
Water-cooled "W"	Water-cooled "W"	Water-cooled "W"	Cooling
330 A at 100% DC	500 A at 100% DC	650 A at 100% DC	Welding current CO ₂
290 A at 100% DC	450 A at 100% DC	550 A at 100% DC	Welding current M21
250 A at 100% DC	350 A at 100% DC	500 A at 100% DC	Pulse welding current M21
Argon, mixed gas M21 or CO ₂ conforming to EN ISO 14175			Shielding gas
0.8 to 1.2 mm	0.8 to 1.6 mm	0.8 to 2 mm	Wire diameter
10 to 25 l/min	10 to 25 l/min	10 to 25 l/min	Gas flow
3 m/4 m/5 m	3 m/4 m/5 m	3 m/4 m/5 m	Hose package length
Euro torch connector	Euro torch connector	Euro torch connector	Connection
IEC 60974-7	IEC 60974-7	IEC 60974-7	Torch data in accordance with

Manual function torches in four operating variants.



1 Up/down

Setting of:

- Welding current
- Wire feed speed
- Program



2 Up/down

Setting of:

- Welding current
- Wire feed speed
- Welding voltage correction
- Program



PC 1

Setting and display of:

- Welding current
- Wire feed speed
- Program



PC 2

Setting and display of:

- Welding current
- Wire feed speed
- Welding voltage correction
- Program
- JOB

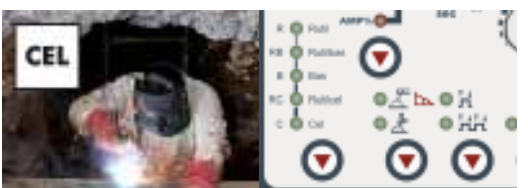
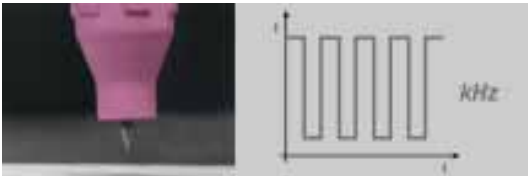


Professional assembly machines

Picotig 200 TG
Picotig 200 MV TG
Tetrrix 200 TG
Tetrrix 200 MV TG
Tetrrix 300-2 TM
Tetrrix 300 Classic cel TM

The portable units are extremely small, compact and light – transportation is effortless on ladders and scaffolding as well as in confined spaces. Output is always constant: even large voltage fluctuations on generators or construction site mains supply present no problem!

Highlights



Easy to use on site

- The Retox torch allows all programs, operating modes and the up/down function to be called up at the touch of a button.

Reliable ignition

- Reproducible, electronic HF ignition and coordinated welding start parameters ensure the best ignition conditions for every application.

Spotmatic – saves 50% of time required for tacking

- The arc is ignited fully automatically without actuating the torch trigger by simply touching the tip of the electrode with the workpiece. Hundreds of reproducible tacks can be made without tungsten inclusions.

Targeted and concentrated: kHz pulses

- Metallurgical pulsing gives the TIG arc the desired plasma arc qualities. activArc in combination with kHz pulses significantly amplifies all positive effects.

activArc – easy, cost-effective, perfect

- Precise, focused arc with high plasma pressure for fast, reliable welding with compensated output: targeted heat input and deep fusion penetration for perfect root penetration.
- Unbeatable: huge cost savings and outstanding quality.

100% suitable for construction sites

- Perfect for large construction sites and very tough assembly work with mains supply leads up to 50 metres or connected directly to a generator. High tolerance to mains fluctuations ensures a perfect welding result.

100 % safe in the vertical-down position using cellulose electrodes

- Easy setting of electrode characteristics with the Tetrrix 300 cel



**100 % safe in the vertical-down position
using cellulose electrodes**

With the Tetrix 300 cel



Overvoltage protection

No damage to 230 V machines caused if inadvertently connected to 400 V mains voltage



TG
Portable, gas cooled
MV
Multivolt



TM
Portable, modular
cel
Cellulose electrodes



Tetrix 300 Classic cel TM



**100 % safe in the vertical-
down position using cellulose
electrodes**



Super-fast attachment of cooling unit

■ The unique fastening system guarantees easy attachment and detachment. The catches are fully integrated in the casing so there is no protrusion and therefore no risk of injury.



Cooling unit with centrifugal pump

■ Optimal welding torch cooling



Modern, ergonomic casing

■ The front and rear sections of the machine are made of shock-resistant plastic with rounded corners and edges, so the welder and the machine have the best protection in any situation.

Tetrix 300-2 TM



Well thought-out: Casing and cooling air conduction

■ Fan control plus blades minimise dirt in the machine



Operating elements

■ Particularly robust, clear and protected layout – allows especially easy handling

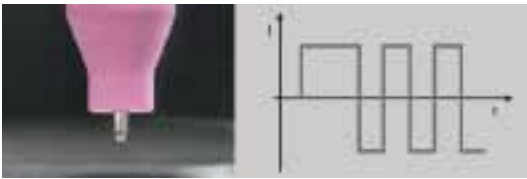


The small AC/DC TIG power packs

Picotig 200 AC/DC TG

The flexible entry-level solution with 200A!
Construction site, assembly, workshop or production site –
the right machine for every location

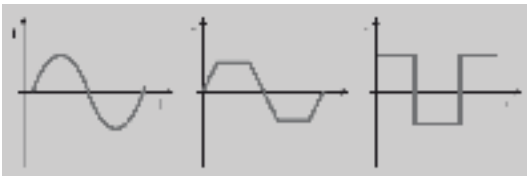
Highlights



■ Reliable ignition

AC: Reliable ignition, stable arc because the shape of the balled end can be very easily adjusted in line with the tungsten electrode diameter. This reduces electrode wear, can be set via menu

DC: Coordinated welding start parameters for ideal ignition conditions with every application.



■ Alternating current types for every need

Different types of alternating current allow welding properties to be individually selected: sinusoid – for agreeably low-noise welding; trapezoid – the all-round setting for almost every application; rectangular – for particularly difficult applications; can be set via menu



■ Light, transportable and mobile

Easily transportable to any work location. Very small and lightweight in a robust plastic casing, this machine can easily be carried up ladders or over cramped scaffolding.



■ 100% suitable for construction sites

Perfect for large construction sites and very tough assembly work with mains supply leads up to 50 metres or connected directly to a generator. High tolerance to mains fluctuations ensures a perfect welding result.



Picotig 200 AC/DC TG



Accessories for professionals

Remote control RT1 that lets you set the parameters directly on-site



ÜOvervoltage protection

No damage to machines caused if inadvertently connected to 400 V mains voltage



Additional dirt filter

For particularly tough sites of operation (option)



Modern, ergonomic casing

The front and rear sections of the machine are made of shock-resistant plastic with rounded corners and edges, so the welder and the machine have the best protection in any situation.



TG
Portable, gas cooled



Well thought-out: Casing and cooling air conduction

Fan control plus blades minimise dirt in the machine



Operating elements

Particularly robust, clear and protected layout – allows especially easy handling

Picotig 200 AC/DC TG



Technical data	
Setting range for welding current	5 A - 200 A
Duty cycle at ambient temperature	40 °C
35 %	200 A
60 %	150 A
100 %	120 A
Open circuit voltage	43 V
Mains frequency	50 Hz / 60 Hz
Mains fuses (slow-blow)	1 x 16 A
Mains voltage (tolerances)	1 x 230 V (-40 % - +15 %)
Dimensions, machine, LxWxH in mm	600 x 205 x 415
Weight machine	16,5 kg
Protection classification	IP 23
Insulation class	F

QR Code



Safe and reliable

Integrated temperature monitors protect against overload



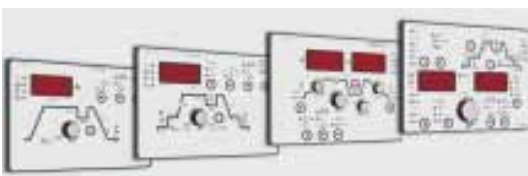
Long duty cycles with TIG standard welding

Tetrix 401 FW

Round-the-clock use! These fully digital, mobile machines have a uniquely high output and duty cycle for continuous use in production, e.g. in multi-shift operation.

The innovative inverter power unit also allows massive savings on energy costs thanks to its highly efficient performance.

Highlights



A fine-tuned and mobile hot wire system consisting of:

- Tetrix mobile power source
- tigSpeed wire feeder: Dynamic feeding with the wire moving forward and backward and an integrated hot wire power source for preheating the wire
- Hot wire torch with wire feed and hot wire contacting

Easy to use on site

- The Retox torch allows all programs, operating modes and the up/down function to be called up at the touch of a button.

TIG Synergic control – perfect for large-scale applications

- Simplest possible operation with maximum ease-of-use: welding task (JOB) can be selected via material type, seam type, tungsten electrode diameter and welding current/panel thickness. The digital system automatically finds the best welding parameters.

activArc – easy, cost-effective, perfect

- Precise, focused arc with high plasma pressure for fast, reliable welding with compensated output: targeted heat transfer and deep fusion penetration for perfect root penetration. Unbeatable: huge cost savings and outstanding quality.

Targeted and concentrated: kHz pulses

- Metallurgical pulsing gives the TIG arc the desired plasma arc qualities. activArc in combination with kHz pulses significantly amplifies all positive effects.

Self-explanatory operating concepts for every user

- Classic – all parameters at a glance and directly accessible
- Comfort – 8 predefinable welding tasks for frequently repeated welding operations
- Synergic – one-knob operation with 256 predefinable welding tasks



Hot wire for maximum efficiency

- 100% greater speeds
- 60% more deposition rate
- 60% less dilution



Perfect spot welds with the spotArc torch

Universally applicable thanks to the possibility of connecting two panels with different thicknesses – clean seam finish for visible welds



Spotmatic – saves 50% of time required for tacking

Fully automatic ignition of the arc by simply touching the workpiece with the electrode tip. Allows rapid and perfect setting of hundreds of reproducible tack points without tungsten inclusions.



Automatic pulses

When tacking and spot welding workpieces, automated pulses ensure current-dependent pulse frequency and balance which enhance gap bridging.



Easy access to the coolant tank

- Exterior opening for tank filling plus level display



Extra large 12-litre tank

- Easy commissioning even with long hose packages and safe operation at high temperatures and extended duty cycles



Mobility for any location

- Large wheels for easy running – even on very uneven surfaces. Same gauge on front and rear wheels facilitates transport



FW
Mobile, water cooled



Controlled protection

- Thermal cut-out for water pump



4 lifting eyes as standard

- 100% mobile for transportation in production halls and shipyards with restricted access



Multi-functional, ergonomic handle system

- Effortless running, practical holder for hose packages, impact protection



■ Increased reliability for positional welding through superimposed forward/backward wire motion

tigSpeed drive CW

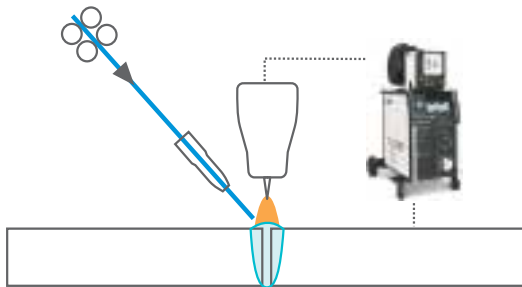
- Cold wire feeder

tigSpeed drive HW

- Hot wire feeder with integrated hot wire power source

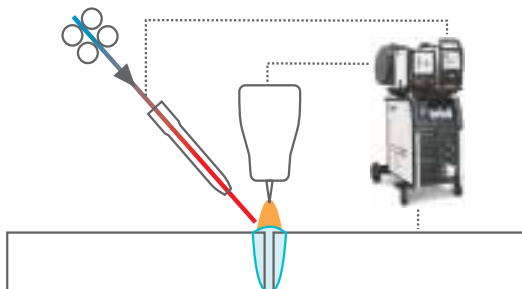


Highlights



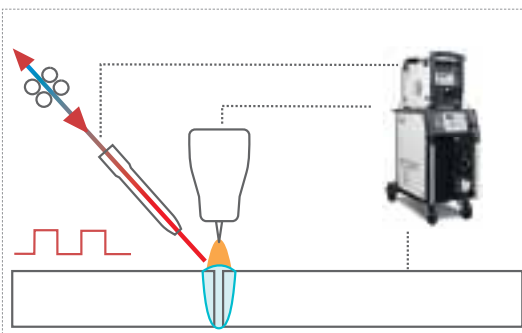
TIG cold wire welding

- TIG cold wire welding was developed primarily with the aim of making TIG welding easier and more convenient to use, and secondarily to increase the welding speed. In this process, the filler wire is conveyed to the weld pool by a wire feed mechanism. Deposition rates, however, remain limited.



TIG hot wire welding

- TIG hot wire welding is a further development of TIG cold wire welding. The wire is heated by a separate power source using resistance heating of the stick-out between the contact tip of the hot wire torch and the weld pool. There are many advantages over cold wire welding thanks to the improved heat balance provided by this process.



tigSpeed welding with superimposed forward/backward wire motion

- tigSpeed welding is the logical extension of the TIG cold and hot wire welding. The continual wire feeding is superimposed by forward/backward motion of the wire. This leads to a particularly stable welding process with a high deposition rate, which is especially suitable for positional welding.

Dynamic wire feed system with superimposed forward/backward wire motion

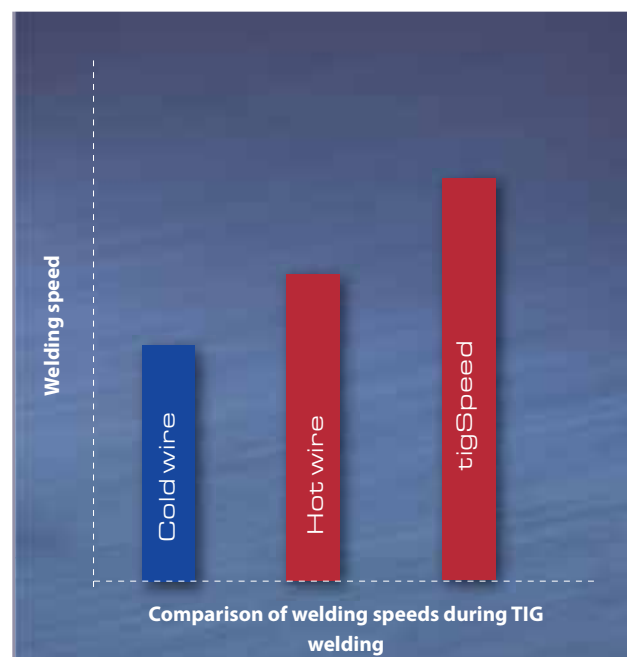
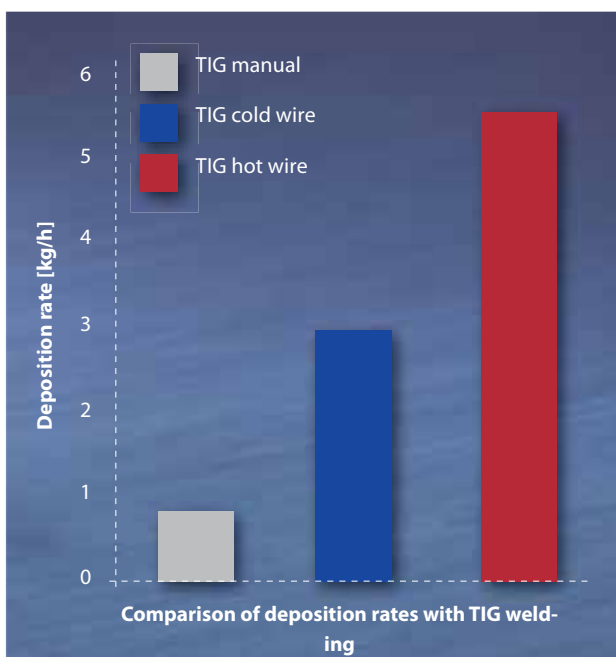


- Lower heat input
- Less distortion
- Less shrinkage of the components
- Significantly smaller heat-affected zone
- Improved impact work-values



- TIG cold and hot wire welding with dynamic wire feeding system
- High process reliability and reproducible welding results
- Higher welding speed and extremely simple handling, similar to pulsed MIG/MAG welding
- Dynamic wire feeding for a controllable weld pool even with positional welding: The wire feeding is superimposed in parallel using a forward and backward movement
- Heat supply to the wire can be set up to 180 A (depending on the wire diameter) for improved deposition rate and an even lower risk of weld errors
- Up to 100% faster welding speed
- Up to 60% improvement in deposition rate
- Dilution reduced by up to 60%
- Perfect weld appearance, no weld spatters
- spotArc and spotMatic
- 4-roller wire feed equipped for 1.0 mm + 1.2 mm steel wires
- Can be used with any TIG welding machine
- Fewer emissions: Significantly lower fume generation than with MIG/MAG pulse welding

Wire speed	0.5 m/min - 15 m/min
Mains voltage (tolerances)	230 V (-20 % - +20 %)
Hot wire current	70 A - 130 A
Oscillating frequency	1 Hz - 16 Hz
Wire feeder LxWxH in mm	624 x 342 x 480
Weight, wire feeder	29 kg





NEW!



NEW!

	Picotig 200 TG	Picotig 200 MV TG
	 	 
Controls		
Picotig	•	•
Smart	–	–
Classic	–	–
Classic cel	–	–
Comfort	–	–
Synergic	–	–
Functions		
TIG	•	•
MMA	•	•
EWM-activArc	–	–
EWM-spotArc	–	–
Technical data		
Setting range for welding current	5 A - 200 A	5 A - 200 A
Duty cycle at ambient temperature	40 °C	40 °C
25 %	200 A	200 A
60 %	150 A	150 A
100 %	120 A	120 A
Open circuit voltage	–	–
Mains frequency	50 Hz / 60 Hz	50 Hz / 60 Hz
Mains fuses (slow-blow)	1 x 16 A	1 x 16 A, 1 x 25 A
Mains voltage (tolerances)	1 x 230 V (-40 % - +15 %)	1 x 230 V (-40 % - +15 %), 1 x 115 V (-15 % - +15 %)
Max. connected load	4.4 kVA	4.4 kVA
Recommended generator power	7.5 kVA	7.5 kVA
Dimensions, machine, LxWxH in mm	475 x 135 x 250	475 x 180 x 295
Weight, machine	6.9 kg	8.9 kg
Protection classification	IP 23	IP 23
Insulation class	–	–
Standards	IEC 60 974-1; -10 / CE / S-Safety sign / EMC class A	

QR Code

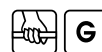




Tetrix 200 TG

Tetrix 200 MV TG

Tetrix 300-2 TM



-

•

-

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•

5 A - 200 A

40 °C

200 A

150 A

120 A

-

50 Hz / 60 Hz

1 x 16 A

1 x 230 V (-40 % - +15 %)

4.4 kVA

7.5 kVA

475 x 180 x 295

10 kg

IP 23

-



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•

5 A - 200 A

40 °C

200 A

150 A

120 A

-

50 Hz / 60 Hz

1 x 16 A, 1 x 25 A

1 x 230 V (-40 % - +15 %), 1 x 115 V (-15 % - +15 %)

4.4 kVA

7.5 kVA

475 x 180 x 295

11.5 kg

IP 23

-



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5 A - 300 A

40 °C

-

300 A

250 A

100 V

50 Hz / 60 Hz

3 x 16 A

3 x 400 V (-25 % - +20 %)

8.3 kVA

16.4 kVA

600 x 205 x 415

20 kg

IP 23

H



IEC 60 974-1; -10 / CE / S-Safety sign / EMC class A



NEW!



Tetrix 300-2 TM



Controls

Picotig

–

Smart

•

Classic

–

Classic cel

–

Comfort

•

Synergic

–

Functions

TIG

•

MMA

•

EWM-activArc

•

EWM-spotArc

•

Technical data

Setting range for welding current

5 A - 300 A

Duty cycle at ambient temperature

40 °C

40 %

–

60 %

300 A

100 %

250 A

Open circuit voltage

100 V

Mains frequency

50 Hz / 60 Hz

Mains fuses (slow-blow)

3 x 16 A

Mains voltage (tolerances)

3 x 400 V (-25 % - +20 %) x 230 V

Max. connected load

8.3 kVA

Recommended generator power

16.4 kVA

Dimensions, machine, LxWxH in mm

600 x 205 x 415

Weight, machine

20 kg

Weight, cooling unit

18.4 kg

Protection classification

IP 23

Insulation class

H

Cooling output

800 W (1l/min)

Tank capacity

4 l

Flow rate

5 l/min

Max. output pressure

3.5 bar

Standards

IEC 60 974-1; -3; -10; -2 / CE / S-Safety sign / EMC class A

QR Code





Tetrix 300 Classic cel TM		Tetrix 300 Classic cel TM		Tetrix 401 FW	
 		 		 	
	-		-		-
	-		-		•
	-		-		•
	•		•		-
	-		-		•
	-		-		•
	•		•		•
	•		•		•
	-		-		•
	•		•		•
	5 A - 300 A		5 A - 300 A		5 A - 400 A
	40 °C		40 °C		40 °C
	300 A		300 A		-
	250 A		250 A		-
	200 A		200 A		400 A
	105 V		105 V		80 V
	50 Hz / 60 Hz		50 Hz / 60 Hz		50 Hz / 60 Hz
	3 x 16 A		3 x 16 A		3 x 35 A
	3 x 400 V (-25 % - +20 %)		3 x 400 V (-25 % - +20 %)		3 x 400 V (-25 % - +20 %)
	8.3 kVA		8.3 kVA		13.1 kVA
	16.3 kVA		16.3 kVA		25 kVA
	570 x 240 x 550		570 x 240 x 550		1100 x 455 x 1000
	40 kg		40 kg		115 kg
	-		15 kg		-
	IP 23		IP 23		IP 23
	H		H		H
	-		800 W (1l/min)		1500 W (1l/min)
	-		4.5 l		12 l
	-		5 l/min		5 l/min
	-		3.5 bar		3.5 bar

IEC 60 974-1; -3; -10 / CE / S-Safety sign / EMC class A





Options/accessories

Wire feed units



tigSpeed drive HW

TIG cold and hot wire welding with dynamic wire feed system
High process reliability and reproducible welding results
Higher welding speed and extremely simple handling, similar to MIG/MAG pulse welding
Dynamic wire feeding for a controllable weld pool even with positional welding: The wire feeding is superimposed in parallel using a forward and backward movement
Heat supply to the wire can be set up to 180 A (depending on the wire diameter) for improved deposition rate and an even lower risk of weld errors
Up to 100% faster welding speed
Up to 60% improvement in deposition rate
Dilution reduced by up to 60%
Perfect weld appearance, no weld spatters
spotArc and spotMatic
4-roller wire feed equipped for 1.0 mm + 1.2 mm steel wires
Can be used with any TIG welding machine
Fewer emissions: Significantly lower fume generation than with MIG/MAG pulse welding



Tetrix drive 4L

Wire feeder, water, Euro torch connector
A demodular Tetrix power source with connections for wire feed units is required for operation!
Spool diameter up to 300 mm

spotArc torches



TIG welding torch, gas or water cooled
Spot welding torch, with welding nozzles for fillet welds, edge welds and flat seams incl. setting gauge

SPOTARC TIG 26 G 5P 4M
SPOTARC TIG 26 G 5P 4M
SPOTARC TIG 18 W 5P 4M
SPOTARC TIG 18 W 5P 4M

Standard torches, 5-pole



TIG welding torch, gas or water cooled
Double push-button

TIG 150 GD GRIP 5P 2T 4M
TIG 200 GD GRIP 5P 2T 4M
TIG 260 WD GRIP 5P 2T 4M
TIG 400 WD GRIP 5P 2T 4M

Standard torches, 8-pole



TIG welding torch, up/down, gas or water cooled
Setting of welding current and programs
Double push-button
An 8-pole connection socket is required for portable machines up to 270 A

TIG 150 GD GRIP 8P 2T UD 4M
TIG 200 GD GRIP 8P 2T UD 4M
TIG 260 WD GRIP 8P 2T UD 4M
TIG 400 WD GRIP 8P 2T UD 4M

NEW!

Function torches, 12-pole



TIG function torch, Retox, gas or water cooled
Setting and display of welding current and programs
„ON 12-pole connection socket“ option required

TIG 150 GD 12P GRIP RETOX HFL 4M
TIG 200 GD GRIP 12P RETOX HFL 4M
TIG 260 WD GRIP 12P RETOX HFL 4M
TIG 450 WD GRIP 12P RETOX HFL 4M
TIG 450SC WD GRIP 12P RETOX HFL 4M

Gouging



GT 600 SKK95 3

Gouging torch
Air arc gouging torch for separating metals
► Suitable carbon electrodes can be found in the Accessories section of the price list!

Remote controls, 19-pole



RTG1 19POL

Remote control, current
With pre-fitted 5-m connection cable
Operating point setting directly at the site of welding
For Tetrix, Picotig 190 AC/DC and Stick machine series



RT1 19POL

Remote control, current
Operating point setting directly at the site of welding
Robust metal casing with rubber feet, retaining clip and holding magnet
For Tetrix, Picotig 190 AC/DC, Pico 180 and Pico 300 cel / cel pws machine series



RTP1 19POL

Remote control, spot/pulsed welding
Pulse, spot and pause times are infinitely adjustable.
Operating point setting directly at the site of welding
Robust metal casing with rubber feet, retaining clip and holding magnet
For Tetrix and Picotig 190 AC/DC machine series



RTP2 19POL

Remote control, spot/pulsed welding
Pulse/pause ratio (balance) adjustable from 10% to 90%.
Operating point setting directly at the site of welding
Robust metal casing with rubber feet, retaining clip and holding magnet
For Tetrix and Picotig 190 AC/DC machine series



RTP3 spotArc 19POL

Remote control, spotArc, spot/pulsed welding
Pulse/pause ratio (balance) adjustable from 10% to 90%.
Operating point setting directly at the site of welding
Robust metal casing with rubber feet, retaining clip and holding magnet
For Tetrix and Picotig 190 AC/DC machine series



Remote controls, 19-pole



RTF1 19POL

Foot-operated remote control, current, with connection cable
Start/stop welding operation
Operating point setting directly at the site of welding
For Tetrix, Picotig 190 AC/DC, Pico 180 and Pico 300 cel / cel pws machine series



RTF2 19POL

Foot-operated remote control, current, with connection cable
Start/stop welding operation
Operating point setting directly at the site of welding
Robust metal casing with rubber feet, retaining clip and holding magnet
For Tetrix, Picotig 190 AC/DC, Pico 180 and Pico 300 cel / cel pws machine series

Cooling units



cool35 U31

Air cooling unit with centrifugal pump
Modular design, tool-free assembly



cool41 U31

Air cooling unit with centrifugal pump
Modular design, tool-free assembly

Options for retrofitting



ON Safeguard M

For Picotig 200 und Pico 220 cel puls
Protective cover
Optimised supplementary protection provided by impact-resistant and insulating enclosure for use under difficult conditions

Transport carts



Trolley 35-1

Transport carts
For Picomig 180, Picotig 180/180 MV, Tetrix 180 and Pico 180
For transporting a power source and a gas cylinder



Trolley 38-2 E

Transport carts
For transporting a power source, a cooling unit and a gas cylinder
For Tetrix 230, 270, 300, 400-2 DC as well as Tetrix 230, 300 AC/DC

Electrode holders



EH 35MM²

Electrode cable
Fully assembled electrode cable

► Refer to the Internet for more technical information. www.ewm-group.com

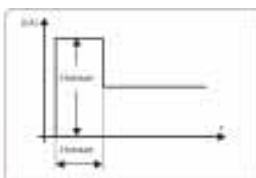
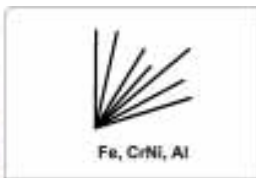
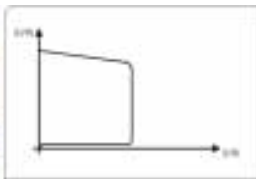
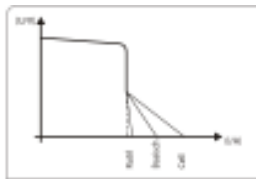


Cellulose electrodes 100 % safe for vertical-down welding

Pico 220 cel puls

Whether difficult to weld cellulose electrodes or root pass – always 100 percent safe for vertical-down welding, always optimum welding results. The Pico 220 cel puls shows impressive welding characteristics even with long mains leads, large voltage fluctuations or direct operation at the generator. Pico 220 cel puls – the next generation for construction sites and pipe construction

Highlights



Cel

- 100 % proof vertical-down welding with cellulose electrodes

Arcforce

- No short circuits, Arcforce offers exceptional welding properties with all types of electrodes

MMA pulsed welding – ideal for root welding

- Fine-flaked weld surface with a TIG look for final passes
- Less spatter means less finishing work
- Ideal for difficult electrodes
- Outstanding gap bridging with no sagging of the root pass
- Less distortion thanks to controlled heat input

Antistick and Arcforce – weld like a professional

- Extremely easy welding: The arc burns steadily without the stick electrode sticking or annealing.

Perfect weld seam even with thick electrodes

- Even 5-millimetre electrodes are no problem for the Pico 220. State-of-the-art inverter technology with superb control dynamics provides a stable arc. This allows for effortless joining even with hard to weld rutile or rutile-cellulose electrodes.

100% suitable for construction sites

- Perfect for large construction sites and very tough assembly work with mains supply leads up to 50 metres or connected directly to a generator. High tolerance to mains fluctuations ensures a perfect welding result.

Hotstart for exceptional quality

- The variable Hotstart function (adjustable current und time) reliably ignites the electrode and melts perfectly to ensure the best quality even at the start of the seam. This solution makes lack of fusion and cold welds a thing of the past and significantly reduces excess weld material.



Antistick and Arcforce – a strong team

During the welding process, Arcforce prevents the electrode from sticking in the weld pool. However, if the electrode does stick, the Antistick automatically switches to minimum current, therefore preventing annealing and keeping the electrode in serviceable condition.



Hotstart for exceptional quality

The variable Hotstart function (adjustable current and time) reliably ignites the electrode and melts perfectly to ensure the best quality even at the start of the seam. This solution makes lack of fusion and cold welds a thing of the past and significantly reduces excess weld metal.



No pipeline without Pico/Stick CEL

100% reliability for vertical-down welds with cellulose electrodes.



MMA pulse welding



Excellent gap bridging, controlled heat input, less distortion and fewer spatters



Insulating protective cover

- For optimum protection of the machine in demanding environments. Light, robust and easy to retrofit.



Intelligent casing design

- Optimised air conduction for long duty cycle



Safe and reliable

- Integrated temperature monitors protect against overload



Modern, ergonomic casing

- The front and rear sections of the machine are made of shock-resistant plastic, with rounded corners and edges



Operating elements

- Particularly robust, clear and protected layout

Pico 220 cel puls



Setting range for welding current	10 A - 220 A
Duty cycle at ambient temperature	40 °C
30 %	220 A
60 %	160 A
100 %	140 A
Open circuit voltage	97 V
Mains frequency	50 Hz / 60 Hz
Mains fuses (slow-blow)	3 x 16 A
Mains voltage (tolerances)	3 x 400 V (-25 % - +20 %)
Dimensions, machine, LxWxH in mm	470 x 135 x 250
Weight, machine	8.9 kg
Protection classification	IP 23
Insulation class	H
Standards	IEC 60 974-1; -10 / CE / S-Safety sign / EMC class A

QR Code





Options/accessories

Standard torches, 5-pole



TIG 26 GD GRIP 5P 2T 4M
TIG welding torch, gas-cooled

TIG torch, rotary gas valve



TIG 26 GDV GRIP 4M
TIG welding torch, rotary gas valve, gas-cooled, decentral

Remote controls, 19-pole



RT1 19POL
Remote control, current
Operating point setting directly at the site of welding
Robust metal casing with rubber feet, retaining clip and holding magnet
For Tetrix, Picotig 190 AC/DC, Pico 180 and Pico 300 cel / cel pws machine series



RTG1 19POL
Remote control, current
With pre-fitted 5-m connection cable
Operating point setting directly at the site of welding
For Tetrix, Picotig 190 AC/DC and Stick machine series

Remote controls, 19-pole



RTF1 19POL
Foot-operated remote control, current, with connection cable
Start/stop welding operation
Operating point setting directly at the site of welding
For Tetrix, Picotig 190 AC/DC, Pico 180 and Pico 300 cel / cel pws machine series

Electrode holders



EH 35MM²
Electrode cable
Fully assembled electrode cable

Options for retrofitting



ON Safeguard M
For Picotig 200 und Pico 220 cel puls
Protective cover
Optimised supplementary protection provided by impact-resistant and insulating enclosure for use under difficult conditions

► Refer to the Internet for more technical information. www.ewm-group.com



Gouging up to 1000 A

2 x Taurus 505 Basic Gouging Set

- Low weight, high mobility
- Simple operation via remote control
- Cutting, correcting weld errors, piercing, rectifying cavities in the casting
- Powerful, effective and economical

Diameter	4 mm	5 mm	6 mm
Current	80-150 A	110-200 A	170-300 A

Diameter	8 mm	10 mm	13 mm
Current	250-450 A	400-550 A	500-900 A

Highlights



- Inverter welding machine, DC
- Multiprocess: MIG/MAG, MMA and air arc gouging
- Modular (gas- or liquid-cooled)
- Gouging with carbon electrode diameters of up to 10mm²
- Connection capability for remote control, function torch, cooling unit
- Protective earth monitoring (PE)
- Cooling unit can be changed with no need for tools or specialist staff and no need to open the welding machine
- Trolley and cooling unit optionally available



Mains voltage (tolerances)	3 x 400 V (-25 % - +20 %)
Setting range for welding current	5 A - 1000 A
Duty cycle 40°C	1000 A / 60 %
	860 A / 100 %

- 1000 A at 60% duty cycle
- Open roots, correct faulty weld seams, prepare joints, rectify cracks. These are just some of the many possible applications for gouging.
- The Taurus Basic Gouging Set also provides you with two full-scale multi-process power sources. MMA welding or MIG/MAG welding (with an additional external wire feeder) can be carried out with the usual EWM quality.
- The package includes two power sources, gouging torch, remote control and trolley as well as all connection leads.
- The set is also available without the power sources for retrofitting with existing power sources.

Gouging torch GT 1000 SKK95 3M

Gouging to 1000 A

Transport vehicle Trolley 39-1

Remote control RG12

Setting directly at the workplace

- The remote control means that you don't have to go back and forth between your workplace and the power source, thus increasing productivity.
- Easy to adjust even when wearing gloves.



Notes

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